

WHAT IS CLAIMED IS:

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1. A superconducting wire comprising:
an oxide superconducting material;
a metallic covering material made of metal, for covering a surface of
said oxide superconducting material; and
ceramic materials buried in a surface of said metallic covering material.

2. The superconducting wire of claim 1, wherein the form of said ceramic materials comprises at least particles or fibers.

3. The superconducting wire of claim 1, wherein the ceramic materials are oxides.

4. The superconducting wire of claim 3, wherein said ceramic materials comprise one or more kinds of materials selected from the group consisting of alumina, magnesia, and zirconia.

5. The superconducting wire of claim 1, wherein the material of said oxide superconducting material comprises a bismuth-based superconductor.

6. The superconducting wire of claim 1, wherein the material of said metallic covering material comprises silver.

7. A method of manufacturing a superconducting wire comprising a step of conducting heat treatment under a state in which a surface of a member including at least a superconductive phase is covered, and ceramic materials are buried in a surface of a metallic covering material.

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8. The manufacturing method of claim 7, wherein the process of burying said ceramic materials in said metallic covering material comprises a step of mechanically pressing said ceramic materials and said metallic covering material while said ceramic materials are dredged over the surface of said
10 metallic covering material.

9. The manufacturing method of claim 8, wherein said step of mechanically pressing method comprises one or more methods selected from extruding, drawing, rolling, and pressing.

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10. The manufacturing method of claim 7, wherein the process of burying the ceramic materials in the metallic covering comprises a step of conducting heat treatment while ceramic materials contact the surface of said metallic covering material.